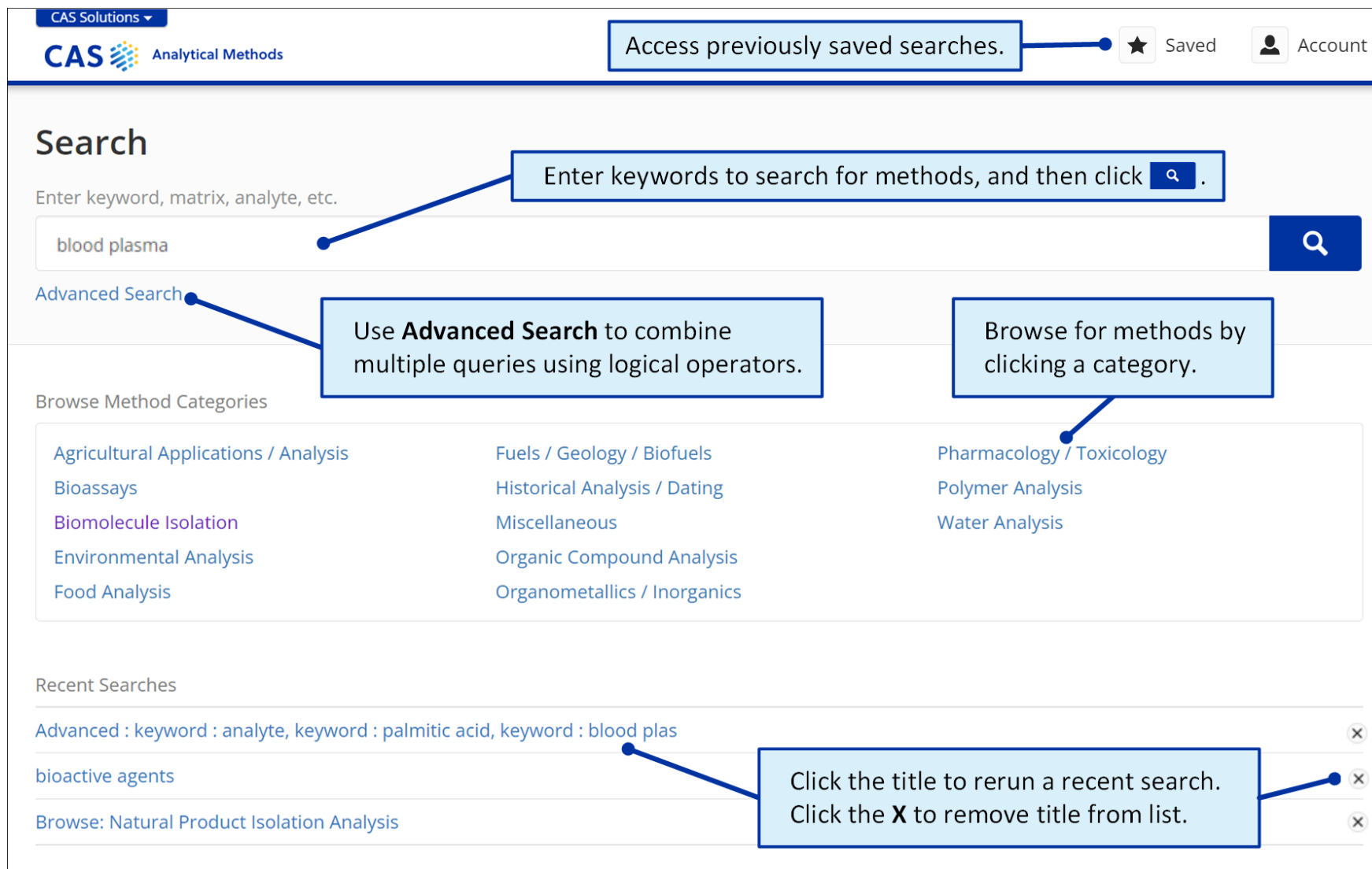


Search



The screenshot displays the CAS Analytical Methods Search interface. At the top, the header includes the CAS logo, 'Analytical Methods', and a 'CAS Solutions' dropdown. On the right, there are links for 'Access previously saved searches.', 'Saved' (with a star icon), and 'Account' (with a user icon).

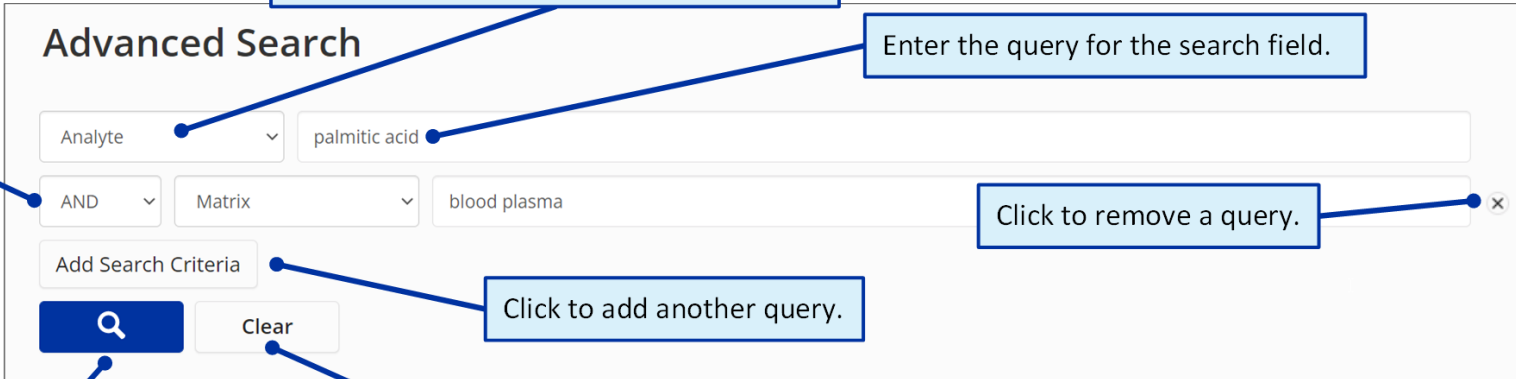
The main section is titled 'Search' and contains a search bar with the placeholder text 'Enter keyword, matrix, analyte, etc.'. The search bar contains the text 'blood plasma' and a search button with a magnifying glass icon. A callout points to the search bar with the text: 'Enter keywords to search for methods, and then click [search button]'.

Below the search bar is a link for 'Advanced Search'. A callout points to this link with the text: 'Use **Advanced Search** to combine multiple queries using logical operators.'

Below the 'Advanced Search' link is a section titled 'Browse Method Categories'. It contains three columns of category names: 'Agricultural Applications / Analysis', 'Bioassays', 'Biomolecule Isolation', 'Environmental Analysis', 'Food Analysis', 'Fuels / Geology / Biofuels', 'Historical Analysis / Dating', 'Miscellaneous', 'Organic Compound Analysis', 'Organometallics / Inorganics', 'Pharmacology / Toxicology', 'Polymer Analysis', and 'Water Analysis'. A callout points to the 'Pharmacology / Toxicology' category with the text: 'Browse for methods by clicking a category.'

Below the 'Browse Method Categories' section is a section titled 'Recent Searches'. It contains three search entries: 'Advanced : keyword : analyte, keyword : palmitic acid, keyword : blood plas', 'bioactive agents', and 'Browse: Natural Product Isolation Analysis'. Each entry has a close button (X) to its right. A callout points to the first entry with the text: 'Click the title to rerun a recent search. Click the **X** to remove title from list.'

Advanced Search



The Advanced Search interface includes the following components and callouts:

- Select the search field:** Keyword, Analyte, Matrix, Method Category, Technique, CAS Method Number, or Publication Name. (Callout pointing to the 'Analyte' dropdown)
- Enter the query for the search field.** (Callout pointing to the 'palmitic acid' text input)
- Select the logical operator: AND, OR, NOT.** (Callout pointing to the 'AND' dropdown)
- Click to remove a query.** (Callout pointing to the 'x' icon next to the 'blood plasma' query)
- Click to add another query.** (Callout pointing to the 'Add Search Criteria' button)
- Click to execute search.** (Callout pointing to the search button with a magnifying glass icon)
- Click to reset form.** (Callout pointing to the 'Clear' button)

The search criteria shown are:

- Analyte: palmitic acid
- Logical operator: AND
- Matrix: blood plasma

Results

Results (7)

← Return to Advanced Search

1 selected

Save methods.

Sort methods by **Relevance** or **Publication Year**.

Download methods to PDF or XLS format.

Select individual methods to export or save, or check box at top to select all methods on page.

Click method title or **View Details & Instructions** to view method details.

Select boxes to filter methods by data values.

Click **Compare** to view selected methods for comparison.

Click **Add to Compare** to select methods for comparison.

Remove a selected comparison method.

Analysis of Hyperoside in Blood plasma by HPLC
CAS MN: 1-101-CAS-135904

Analysis of Mexiletine in Blood plasma by HPLC
CAS MN: 1-101-CAS-156566

Method Category

- Carbamazepine 10,11-epoxide (1)
- Matrix
 - Blood plasma (7)
 - Urine (1)
- Method Category
 - Technique
 - ☒ HPLC (7)
 - HPLC-tandem mass spectrometry (7)
 - Liquid-liquid extraction (7)
 - Atmospheric pressure ionization (5)
 - Extraction (5)
- Year
 - 2013 (2)
 - 2004 (1)
 - 2007 (1)
 - 2010 (1)
 - 2012 (1)

Analyte Hyperoside

Matrix Blood plasma

Other Materials Reagent: Acetic acid; Methanol

Equipment Used column (Diamonsil C18, 4.6 mm X 150 mm, i.d., 5 µm); 0.45 µm membrane

Category Liquid chromatographic UV detectors; HPLC; Extraction

Technique High performance liquid chromatography system; Milli-Q Biocel Ultrapure Water System



Abstract LC determination and pharmacokinetic study of hyperoside in rat plasma after intravenous administration

Full Text Liu, Xun; Wang, Dong; Wang, Si-Yuan; Meng, Xian-Sheng; Zhang, Wen-jie; Ying, Xi-Xiang; Kang, Ting-Guo

Yakugaku Zasshi (2010), 130 (6), 873-879. Pharmaceutical Society of Japan

Method Detail


Method Detail (1 of 38) ← Prev Next →


Download method to PDF or XLS format.  

Analysis of (±)-Pentobarbital in Blood plasma by Gas chromatography-mass spectrometry

CAS MN: 1-101-CAS-168942

Method Category: Active Pharmaceutical Ingredient and Metabolite Analysis
Technique: Gas chromatography-mass spectrometry

Save method. 

View structure image. 

Materials	Role	Image	CAS RN
(±)-Pentobarbital	analyte	View Structure	76-74-4
(±)-Thiopental	analyte	View Structure	76-75-5
Propofol	analyte	View Structure	2078-54-8
2,4,6-(1H,3H,5H)-Pyrimidinetrione, 1-methyl-5-(1-methyl-2-propenyl)-			151-83-7
Diazepam			439-14-5
Phenobarbital	analyte	View Structure	50-06-6
Midazolam	analyte	View Structure	59467-70-8
Nordiazepam	analyte	View Structure	1088-11-5
Blood plasma	matrix		
GC capillary column (12 m x 0.2 mm ID, 330-nm film thickness)	material		

Scroll the display to see method details such as: Materials, Source, Equipment Used, Conditions, Instrument, Instructions, and Validation.

Source

Fast, Simple, and Validated Gas Chromatographic-Mass Spectrometric Assay for Quantification of Drugs Relevant to Diagnosis of Brain Death in Human Blood Plasma Samples

Peters, Frank T.; Jung, Julia; Kraemer, Thomas; Maurer, Hans H.

Therapeutic Drug Monitoring (2005), 27 (3), 334 - 344. Lippincott Williams & Wilkins

CODEN: TDMODV | ISSN: 01634356 | DOI: 10.1097/01.ftd.0000158079.53577.46

Full Text ▾

Abstract ^

In addition to total anamnesis, one of the important aspects in diagnosis of brain death is the exclusion of effective plasma concentrations of drugs that

Compare Methods









Compare Methods

Click X to remove method from the table.

Download the comparison table.

Expand All data items on table or Collapse All.

Expand All Collapse All

	1 	2 	3 
Title	Analysis of Hyperoside in Blood plasma by HPLC	Analysis of Carbamazepine in Blood plasma by HPLC	Analysis of 5-Fluorouracil in Blood plasma by Liquid-liquid extraction
CAS Method Number	1-101-CAS-135904	1-101-CAS-184445	1-101-CAS-158452
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis
Technique	Liquid chromatographic UV detectors; HPLC; Extraction	HPLC; Solid phase extraction	HPLC; Liquid-liquid extraction
Analyte	Hyperoside	<i>trans</i> -10,11-Dihydroxy-10,11-dihydrocarbamazepine; Carbamazepine 10,11-epoxide; View All 	Uracil; 5-Fluorouracil; Dihydrouracil; Antitumor agents
Matrix	Blood plasma	Blood plasma	Blood plasma
Other Materials	Acetic acid; Methanol; Analytical column (Diamonsil C18, 4.6 mm X 150 mm, i.d., 5 µm); Guard column (KR View All 	0.45 µm regenerated cellulose membrane filter; analytical column (250 mm x 4.6 mm; 5 µm); cartridges View All 	RP-18 X-Terra'column (5 µm particles, 25 cm)
Equipment Used	High performance liquid chromatography system, Shimadzu, Kyoto, Japan; Milli-Q Biocel Ultrapure View All 	HPLC system, 1200, Agilent Technologies , Wilmington, DE, USA; Vacuum Manifold, 12-port, Supelco, View All 	HPLC system, 1100, Agilent